Attachment B Pricing
Installation, Relocation, and Repair of the ATMS Devices
San Juan County
Summary of Items

	DESCRIPTION	unit	quantity	unit price
1	Traffic Control for New Installation Beyond the Shoulder	Each	10.0	$ 312.40
2	Traffic Control for Work within the Shoulder	Each	10.0	$ 312.40
3	Traffic Control for Single Lane Closure	Each	5.0	$ 355.00
4	Traffic Control for Two Lane Closure	Each	5.0	$ 39.50
5	Traffic Control Maintainer	Hour	30.0	$ 45.44
6	Flagging (State Projects)	Hour	30.0	$ 41.18
7	Flagging (Federal Projects)	Hour	30.0	$ 48.99
8	Construction Sign	Sq ft/d	500.0	$ 0.18
9	Plastic Barrels	Dev/d	100.0	$ 1.14
10	Barricades Type I	Dev/d	20.0	$ 0.64
11	Barricades Type II	Dev/d	20.0	$ 0.68
12	Barricades Type III	Dev/d	15.0	$ 4.54
13	Vertical Panel	Dev/d	20.0	$ 0.68
14	Check Dam	Lineal Ft	200.0	$ 22.01
15	Silt Fence Slop Barrier	Lineal Ft	200.0	$ 3.55
16	Slope Drain	Lineal Ft	200.0	$ 38.34
17	Drop-inlet Barrier	Lineal Ft	200.0	$ 22.01
18	Sediment Trap	Cu ft	25.0	$ 3.41
19	Temporary Berm	Lineal Ft	25.0	$ 7.81
20	Curb Inlet Barrier	Each	10.0	$ 92.30
21	Sand	Ton	2.0	$ 25.21
22	Free Draining Granular Backfill Borrow	Cu yd	5.0	$ 65.32
23	Geotextiles - Weed barrier	Sq yd	24.0	$ 4.26
24	Asphalt Fabric	Sq yd	20.0	$ 1.56
25	Remove Manhole	Each	1.0	$ 994.00
26	Remove Concrete Sidewalk	Sq yd	10.0	$ 8.52
27	Remove Concrete Driveway	Sq yd	50.0	$ 10.51
28	Remove Concrete Pavement	Sq yd	50.0	$ 9.30
29	Removal of Asphalt Pavement	Sq yd	50.0	$ 8.52
30	Site Clearing and Grubbing	Sq yd	100.0	$ 1.42
31	Landscape Grading	Sq yd	50.0	$ 2.13
32	Erosion Control Blanket	Sq yd	24.0	$ 14.20
33	Portland Cement Concrete Pavement 7 inch Thick	Sq ft	50.0	$ 25.56
34	Concrete Curb and gutter Type B1	Lineal Ft	25.0	$ 12.78
35	Pedestrian Access Ramp Type A	Sq Ft	4.0	$ 5.68
36	Concrete Sidewalk	Sq ft	60.0	$ 8.52
37	Concrete Flatwork 6 inch thick	Sq Yd	100.0	$ 17.04
38	Hot Mix Asphalt	Sq Yd	10.0	$ 23.43
39	Drill Seed	Acres	0.5	$ 710.00
40	Turf Seed	1000 sq ft	100.0	$ 18.46
41	Broadcast Seed	Acres	0.5	$ 710.00
42	Broadcast Seed	1000 sq ft	500.0	$ 21.30
43	Broadcast Turf Seed	1000 sq ft	500.0	$ 26.98
44	Turf Sod	Sq ft	20.0	$ 2.84
45	Tree Pruning	Each	2.0	$ 497.00
46	Mast Arm Signal Pole (50 ft to 65 ft) - State Furnished	Each	4.0	$ 568.00
47	Mast Arm Signal Pole (50 ft to 65 ft Foundation	Each	4.0	$ 4,544.00
48	65 ft Mast Arm - State Furnished	Each	4.0	$ 781.00
49	40 Ft Light Pole Extension with 10 ft Arm - State Furnished	Each	2.0	$ 553.80
50	480V Highway Liminaire - State Furnished	Each	2.0	$ 355.00
51	240V Highway Liminaire - State Furnished	Each	2.0	$ 355.00
52	Pedestrian Pole - State Furnished	Each	4.0	$ 248.50
53	Pedestrian Pole Foundation	Each	4.0	$ 1,988.00
54	1 inch Dia. X 36 inch Anchor Bolt with Hardware	Each	4.0	$ 191.70
55	1.5 inch Dia. X 54 inch Anchor Bolt with Hardware	Each	5.0	$ 220.10
56	2 inch Diameter Arch Bolt with Hardware	Each	4.0	$ 234.30

Attachment B Pricing
Installation, Relocation, and Repair of the ATMS Devices
San Juan County
Summary of Items

	DESCRIPTION	unit	quantity	unit price
57	LED Ball and Arrow Signal Module, State Furnished	Each	24.0	$ 213.00
58	LED Pedestrian Signal Module, State Furnished	Each	4.0	$ 134.90
59	Power Source, Pole Mount	Each	2.0	$ 1,065.00
60	Power Source, Underground Service Pedestal	Each	4.0	$ 1,420.00
61	Size G Cabinet Pole Mount – State Furnished	Each	1.0	$ 213.00
62	Size 5 Cabinet – State Furnished	Each	2.0	$ 319.50
63	Size 5 Cabinet Foundation	Each	2.0	$ 1,065.00
64	Size 6 Cabinet - State Furnished	Each	2.0	$ 497.00
65	Size 6 Cabinet Foundation	Each	2.0	$ 1,278.00
66	Mast Arm Mounted Sign - State Furnished	Each	4.0	$ 106.50
67	IMSA 51-3, 1 wire, AWG 14 gage	Linear Ft.	500.0	$ 2.70
68	IMSA 51-7, 2 wires,AWG 14 gage	Linear Ft.	500.0	$ 1.59
69	IMSA 50-2, 2 wire, AWG 14 gage	Linear Ft.	500.0	$ 1.85
70	IMSA 20-1, 3 wire, AWG 14 gage	Linear Ft.	500.0	$ 1.92
71	IMSA 20-1, 4 wire, AWG 14 gage	Linear Ft.	500.0	$ 1.96
72	IMSA 20-1, 7 wire, AWG 14 gage	Linear Ft.	500.0	$ 2.70
73	RHHUSE-USE-RHW, 4 gage	Linear Ft.	500.0	$ 2.41
74	RHHUSE-USE-RHW, 6 gage	Linear Ft.	500.0	$ 2.27
75	RHHUSE-USE-RHW, 8 gage	Linear Ft.	500.0	$ 2.13
76	Belden RG-59	Linear Ft.	500.0	$ 1.85
77	Belden RG-8	Linear Ft.	500.0	$ 2.70
78	Belden 9913	Linear Ft.	500.0	$ 2.41
79	6 pair Belden AWG No. 19	Linear Ft.	500.0	$ 3.20
80	Times LMR 600	Linear Ft.	500.0	$ 4.40
81	Bare Copper Ground Wire, No. 6	Linear Ft.	500.0	$ 1.35
82	Electrical Work Bridges	Linear Ft.	500.0	$ 17.04
83	Ground Rods	Each	6.0	$ 106.50
84	Traffic Counting Loop Detector	Each	4.0	$ 1,029.50
85	Video Detection Assemblies - State Furnished	Each	1.0	$ 710.00
86	Video Detection Controller - State Furnished	Each	1.0	$ 553.80
87	Video Detection Cable Assembly - State Furnished	Each	1.0	$ 319.50
88	Camera mount, video Detection with 46 inch Tube State Furnished	Each	5.0	$ 284.00
89	Solar Power Battery Back Up – State Furnished	Each	4.0	$ 418.90
90	Wood Pole 35 ft – State Furnished	Each	6.0	$ 284.00
91	Flowable Fill	Cu yd	50.0	$ 120.70
92	Pothole Patching – Concrete	Sq ft	50.0	$ 56.80
93	Pothole Patching – Asphalt	Sq ft	50.0	$ 7.10
94	2 inch Conduit Trenched in Native Earth at 18 Inch cover for less than 200 Feet	Lineal Ft	400.0	$ 13.49
95	2 inch Conduit Trenched in Native Earth at 24 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 14.48
96	2 inch Conduit Trenched in Native Earth at 36 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 15.62
97	2 inch Conduit Trenched in Native Earth at 60 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 17.54
98	2 Inch Conduit Bored, Jacked or Drilled for less than 200 Feet	Lineal Ft	100.0	$ 31.95
99	2 Inch Conduit in Trenched Pavement, Concrete or Sidewalk at 3 foot cover for less than 200 Feet	Lineal Ft	100.0	$ 31.95
100	3 inch Conduit Trenched in Native Earth at 18 Inch cover for less than 200 Feet	Lineal Ft	400.0	$ 14.41
101	3 inch Conduit Trenched in Native Earth at 24 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 15.34
102	3 inch Conduit Trenched in Native Earth at 36 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 16.47
103	3 Inch Conduit Trenched in Native Earth at 60 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 18.03
104	3 Inch Conduit Bored, Jacked or Drilled for less than 200 Feet	Lineal Ft	100.0	$ 32.66
105	3 Inch Conduit in Trenched Pavement, Concrete or Sidewalk at 3 foot cover for less than 200 Feet	Lineal Ft	100.0	$ 32.66
106	Closed Circuit Television (CCTV) Assembly System –State Furnished	Each	5.0	$ 639.00
107	ATMS Cabinet, State Furnished	Each	5.0	$ 1,065.00
108	ATMS Cabinet Foundation	Each	5.0	$ 1,065.00
109	45 Ft Camera Pole	Each	5.0	$ 2,130.00
110	45 Ft Camera Pole Foundation	Each	5.0	$ 4,544.00

Attachment B Pricing
Installation, Relocation, and Repair of the ATMS Devices
San Juan County
Summary of Items

	DESCRIPTION	unit	quantity	unit price
111	60 Ft Camera Pole	Each	1.0	$ 2,556.00
112	60 Ft Camera Pole Foundation	Each	1.0	$ 4,970.00
113	7 ft Chain Link Fence Type IV	Lineal Ft	40.0	$ 26.84
114	7 ft. Chain Link Fence, Type I with Barb Wire Arm	Lineal Ft	40.0	$ 34.79
115	Chain Link Brace Post	Each	8.0	$ 100.82
116	Chain Link Gate, H=6 ft X W=6 ft	Each	1.0	$ 433.10
117	RWIS-ESS - State Furnished	Each	5.0	$ 3,649.40
118	Weigh In Motion System - State Furnished	Each	1.0	$ 2,982.00
119	Reconstruct Manhole	Each	1.0	$ 1,207.00
120	Type I-Polymer Concrete Junction Box	Each	10.0	$ 837.80
121	Type II-Polymer Concrete Junction Box	Each	10.0	$994.00
122	Type III-Polymer Concrete Junction Box	Each	5.0	$1,370.00
123	Type I-Polymer Concrete Junction Box Extension	Each	10.0	$156.20
124	Type II-Polymer Concrete Junction Box Extension	Each	10.0	$390.50
125	Type III-Polymer Concrete Junction Box Extension	Each	5.0	$695.80
126	Lighting Power Source Ground Mount	Each	10.0	$1,370.30
127	Lighting Power Source Pole Mount	Each	10.0	$923.00
128	5 Ton Crane with operator and laborer	Per Hour	100.0	$383.40
129	Bucket Truck having a 65 foot working height with operator	Per Hour	100.0	$201.64
130	Flat bed truck 1 ton with operator	Per Hour	100.0	$109.34
131	Backhoe Loader with transport and operator – Size CAT 240D or equivalent	Per Hour	100.0	$163.30
132	Auger Truck 36" diameter and 8 to 12 feet depth with operator	Per Hour	100.0	$134.90
133	Auger Truck 42" diameter and 11to 32 feet depth with operator	Per Hour	100.0	$210.16
134	5 ton Dump Truck per hour with operator	Per Hour	100.0	$120.70

extended price

extended price

Attachment B Pricing
Installation, Relocation, and Repair of the ATMS Devices
San Juan County
Summary of Items

extended price

Attachment B - Pricing
Installation, Relocation, and Repair of the ATMS Devices
Richfield, Sevier County
Summary of Items

	DESCRIPTION	unit	quantity	unit price	extended price
1	Traffic Control for New Installation Beyond the Shoulder	Each	10.0	$ 303.00	
2	Traffic Control for Work within the Shoulder	Each	10.0	$ 303.60	
3	Traffic Control for Single Lane Closure	Each	5.0	$ 345.00	
4	Traffic Control for Two Lane Closure	Each	5.0	$ 345.00	
5	Traffic Control Maintainer	Hour	30.0	$ 379.50	
6	Flagging (State Projects)	Hour	30.0	$ 44.16	
7	Flagging (Federal Projects)	Hour	30.0	$ 40.02	
8	Construction Sign	Sq ft/d	500.0	$ 47.61	
9	Plastic Barrels	Dev/d	100.0	$ 1.10	
10	Barricades Type I	Dev/d	20.0	$ 0.62	
11	Barricades Type II	Dev/d	20.0	$ 0.66	
12	Barricades Type III	Dev/d	15.0	$ 4.42	
13	Vertical Panel	Dev/d	20.0	$ 0.66	
14	Check Dam	Lineal Ft	200.0	$ 21.39	
15	Silt Fence Slop Barrier	Lineal Ft	200.0	$ 3.45	
16	Slope Drain	Lineal Ft	200.0	$ 37.26	
17	Drop-inlet Barrier	Lineal Ft	200.0	$ 21.39	
18	Sediment Trap	Cu ft	25.0	$ 3.31	
19	Temporary Berm	Lineal Ft	25.0	$ 7.59	
20	Curb Inlet Barrier	Each	10.0	$ 89.70	
21	Sand	Ton	2.0	$ 24.50	
22	Free Draining Granular Backfill Borrow	Cu yd	5.0	$ 63.48	
23	Geotextiles - Weed barrier	Sq yd	24.0	$ 4.14	
24	Asphalt Fabric	Sq yd	20.0	$ 1.52	
25	Remove Manhole	Each	1.0	$ 966.00	
26	Remove Concrete Sidewalk	Sq yd	10.0	$ 8.28	
27	Remove Concrete Driveway	Sq yd	50.0	$ 10.21	
28	Remove Concrete Pavement	Sq yd	50.0	$ 9.04	
29	Removal of Asphalt Pavement	Sq yd	50.0	$ 8.25	
30	Site Clearing and Grubbing	Sq yd	100.0	$ 1.38	
31	Landscape Grading	Sq yd	50.0	$ 2.07	
32	Erosion Control Blanket	Sq yd	24.0	$ 13.80	
33	Portland Cement Concrete Pavement 7 inch Thick	Sq ft	50.0	$ 24.84	
34	Concrete Curb and gutter Type B1	Lineal Ft	25.0	$ 12.42	
35	Pedestrian Access Ramp Type A	Sq Ft	4.0	$ 5.52	
36	Concrete Sidewalk	Sq ft	60.0	$ 8.28	
37	Concrete Flatwork 6 inch thick	Sq Yd	100.0	$ 16.56	
38	Hot Mix Asphalt	Sq Yd	10.0	$ 22.77	
39	Drill Seed	Acres	0.5	$ 690.00	
40	Turf Seed	1000 sq ft	100.0	$ 17.94	
41	Broadcast Seed	Acres	0.5	$ 690.00	
42	Broadcast Seed	1000 sq ft	500.0	$ 20.70	
43	Broadcast Turf Seed	1000 sq ft	500.0	$ 26.22	
44	Turf Sod	Sq ft	20.0	$ 2.76	
45	Tree Pruning	Each	2.0	$ 483.00	
46	Mast Arm Signal Pole (50 ft to 65 ft) - State Furnished	Each	4.0	$ 552.00	
47	Mast Arm Signal Pole (50 ft to 65 ft Foundation	Each	4.0	$ 4,416.00	
48	65 ft Mast Arm - State Furnished	Each	4.0	$ 759.00	
49	40 Ft Light Pole Extension with 10 ft Arm - State Furnished	Each	2.0	$ 538.00	
50	480V Highway Liminaire - State Furnished	Each	2.0	$ 345.00	
51	240V Highway Liminaire - State Furnished	Each	2.0	$ 345.00	
52	Pedestrian Pole - State Furnished	Each	4.0	$ 241.00	
53	Pedestrian Pole Foundation	Each	4.0	$ 1,932.00	
54	1 inch Dia. X 36 inch Anchor Bolt with Hardware	Each	4.0	$ 186.00	
55	1.5 inch Dia. X 54 inch Anchor Bolt with Hardware	Each	5.0	$ 213.00	
56	2 inch Diameter Arch Bolt with Hardware	Each	4.0	$ 227.00	
57	LED Ball and Arrow Signal Module, State Furnished	Each	24.0	$ 207.00	

	DESCRIPTION	unit	quantity	unit price	extended price
58	LED Pedestrian Signal Module, State Furnished	Each	4.0	$ 131.00	
59	Power Source, Pole Mount	Each	2.0	$ 1,035.00	
60	Power Source, Underground Service Pedestal	Each	4.0	$ 138.00	
61	Size G Cabinet Pole Mount – State Furnished	Each	1.0	$ 207.00	
62	Size 5 Cabinet – State Furnished	Each	2.0	$ 310.50	
63	Size 5 Cabinet Foundation	Each	2.0	$ 1,035.00	
64	Size 6 Cabinet - State Furnished	Each	2.0	$ 483.00	
65	Size 6 Cabinet Foundation	Each	2.0	$ 1,242.00	
66	Mast Arm Mounted Sign - State Furnished	Each	4.0	$ 103.50	
67	IMSA 51-3, 1 wire, AWG 14 gage	Linear Ft.	500.0	$ 2.62	
68	IMSA 51-7, 2 wires,AWG 14 gage	Linear Ft.	500.0	$ 1.55	
69	IMSA 50-2, 2 wire, AWG 14 gage	Linear Ft.	500.0	$ 1.75	
70	IMSA 20-1, 3 wire, AWG 14 gage	Linear Ft.	500.0	$ 1.86	
71	IMSA 20-1, 4 wire, AWG 14 gage	Linear Ft.	500.0	$ 1.90	
72	IMSA 20-1, 7 wire, AWG 14 gage	Linear Ft.	500.0	$ 2.62	
73	RHHUSE-USE-RHW, 4 gage	Linear Ft.	500.0	$ 2.35	
74	RHHUSE-USE-RHW, 6 gage	Linear Ft.	500.0	$ 2.21	
75	RHHUSE-USE-RHW, 8 gage	Linear Ft.	500.0	$ 2.07	
76	Belden RG-59	Linear Ft.	500.0	$ 1.79	
77	Belden RG-8	Linear Ft.	500.0	$ 2.62	
78	Belden 9913	Linear Ft.	500.0	$ 2.35	
79	6 pair Belden AWG No. 19	Linear Ft.	500.0	$ 3.11	
80	Times LMR 600	Linear Ft.	500.0	$ 4.28	
81	Bare Copper Ground Wire, No. 6	Linear Ft.	500.0	$ 1.31	
82	Electrical Work Bridges	Linear Ft.	500.0	$ 16.56	
83	Ground Rods	Each	6.0	$ 103.50	
84	Traffic Counting Loop Detector	Each	4.0	$ 1,000.50	
85	Video Detection Assemblies - State Furnished	Each	1.0	$ 690.00	
86	Video Detection Controller - State Furnished	Each	1.0	$ 38.20	
87	Video Detection Cable Assembly - State Furnished	Each	1.0	$ 310.50	
88	Camera mount, video Detection with 46 inch Tube State Furnished	Each	5.0	$ 276.00	
89	Solar Power Battery Back Up – State Furnished	Each	4.0	$ 407.10	
90	Wood Pole 35 ft – State Furnished	Each	6.0	$ 276.00	
91	Flowable Fill	Cu yd	50.0	$ 117.30	
92	Pothole Patching – Concrete	Sq ft	50.0	$ 55.20	
93	Pothole Patching – Asphalt	Sq ft	50.0	$ 6.90	
94	2 inch Conduit Trenched in Native Earth at 18 Inch cover for less than 200 Feet	Lineal Ft	400.0	$ 13.11	
95	2 inch Conduit Trenched in Native Earth at 24 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 14.08	
96	2 inch Conduit Trenched in Native Earth at 36 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 15.18	
97	2 inch Conduit Trenched in Native Earth at 60 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 17.04	
98	2 Inch Conduit Bored, Jacked or Drilled for less than 200 Feet	Lineal Ft	100.0	$ 31.05	
99	2 Inch Conduit in Trenched Pavement, Concrete or Sidewalk at 3 foot cover for less than 200 Feet	Lineal Ft	100.0	$ 31.05	
100	3 inch Conduit Trenched in Native Earth at 18 Inch cover for less than 200 Feet	Lineal Ft	400.0	$ 14.01	
101	3 inch Conduit Trenched in Native Earth at 24 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 14.90	
102	3 inch Conduit Trenched in Native Earth at 36 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 16.01	
103	3 Inch Conduit Trenched in Native Earth at 60 Inch cover for less than 200 Feet	Lineal Ft	200.0	$ 17.53	
104	3 Inch Conduit Bored, Jacked or Drilled for less than 200 Feet	Lineal Ft	100.0	$ 31.74	
105	3 Inch Conduit in Trenched Pavement, Concrete or Sidewalk at 3 foot cover for less than 200 Feet	Lineal Ft	100.0	$ 31.74	
106	Closed Circuit Television (CCTV) Assembly System –State Furnished	Each	5.0	$ 621.00	
107	ATMS Cabinet, State Furnished	Each	5.0	$ 1,035.00	
108	ATMS Cabinet Foundation	Each	5.0	$ 1,035.00	
109	45 Ft Camera Pole	Each	5.0	$ 2,070.00	
110	45 Ft Camera Pole Foundation	Each	5.0	$ 4,416.00	
111	60 Ft Camera Pole	Each	1.0	$ 2,484.00	
112	60 Ft Camera Pole Foundation	Each	1.0	$ 4,830.00	

	DESCRIPTION	unit	quantity	unit price	extended price
113	7 ft Chain Link Fence Type IV	Lineal Ft	40.0	$ 26.08	
114	7 ft. Chain Link Fence, Type I with Barb Wire Arm	Lineal Ft	40.0	$ 33.81	
115	Chain Link Brace Post	Each	8.0	$ 97.98	
116	Chain Link Gate, H=6 ft X W=6 ft	Each	1.0	$ 420.90	
117	RWIS-ESS - State Furnished	Each	5.0	$ 3,546.60	
118	Weigh In Motion System - State Furnished	Each	1.0	$ 2,898.00	
119	Reconstruct Manhole	Each	1.0	$ 1,173.00	
120	Type I-Polymer Concrete Junction Box	Each	10.0	$ 814.20	
121	Type II-Polymer Concrete Junction Box	Each	10.0	$966.00	
122	Type III-Polymer Concrete Junction Box	Each	5.0	$1,331.70	
123	Type I-Polymer Concrete Junction Box Extension	Each	10.0	$151.80	
124	Type II-Polymer Concrete Junction Box Extension	Each	10.0	$379.50	
125	Type III-Polymer Concrete Junction Box Extension	Each	5.0	$676.20	
126	Lighting Power Source Ground Mount	Each	10.0	$1,331.70	
127	Lighting Power Source Pole Mount	Each	10.0	$897.00	
128	5 Ton Crane with operator and laborer	Per Hour	100.0	$372.60	
129	Bucket Truck having a 65 foot working height with operator	Per Hour	100.0	$195.96	
130	Flat bed truck 1 ton with operator	Per Hour	100.0	$106.26	
131	Backhoe Loader with transport and operator – Size CAT 240D or equivalent	Per Hour	100.0	$158.70	
132	Auger Truck 36" diameter and 8 to 12 feet depth with operator	Per Hour	100.0	$131.10	
133	Auger Truck 42" diameter and 11to 32 feet depth with operator	Per Hour	100.0	$204.24	
134	5 ton Dump Truck per hour with operator	Per Hour	100.0	$117.30	

Attachment B- Pricing
Installation, Relocation, and Repair of the ATMS Devices
Price,
Carbon County
Summary of Items

	DESCRIPTION	unit	quantity	unit price	extended price
1	Traffic Control for New Installation Beyond the Shoulder	Each	10.0	$303.60	$ 3,036.00
2	Traffic Control for Work within the Shoulder	Each	10.0	$303.60	$ 3,036.00
3	Traffic Control for Single Lane Closure	Each	5.0	$345.00	$ 1,725.00
4	Traffic Control for Two Lane Closure	Each	5.0	$379.50	$ 1,897.50
5	Traffic Control Maintainer	Hour	30.0	$44.16	$ 1,324.80
6	Flagging (State Projects)	Hour	30.0	$40.02	$ 1,200.60
7	Flagging (Federal Projects)	Hour	30.0	$47.61	$ 1,428.30
8	Construction Sign	Sq ft/d	500.0	$0.18	$ 89.70
9	Plastic Barrels	Dev/d	100.0	$1.10	$ 110.40
10	Barricades Type I	Dev/d	20.0	$0.62	$ 12.42
11	Barricades Type II	Dev/d	20.0	$0.66	$ 13.25
12	Barricades Type III	Dev/d	15.0	$4.42	$ 66.24
13	Vertical Panel	Dev/d	20.0	$0.66	$ 13.25
14	Check Dam	Lineal Ft	200.0	$21.39	$ 4,278.00
15	Silt Fence Slop Barrier	Lineal Ft	200.0	$3.45	$ 690.00
16	Slope Drain	Lineal Ft	200.0	$37.26	$ 7,452.00
17	Drop-inlet Barrier	Lineal Ft	200.0	$21.39	$ 4,278.00
18	Sediment Trap	Cu ft	25.0	$3.31	$ 82.80
19	Temporary Berm	Lineal Ft	25.0	$7.59	$ 189.75
20	Curb Inlet Barrier	Each	10.0	$89.70	$ 897.00
21	Sand	Ton	2.0	$24.50	$ 48.99
22	Free Draining Granular Backfill Borrow	Cu yd	5.0	$63.48	$ 317.40
23	Geotextiles - Weed barrier	Sq yd	24.0	$4.14	$ 99.36
24	Asphalt Fabric	Sq yd	20.0	$1.52	$ 30.36
25	Remove Manhole	Each	1.0	$966.00	$ 966.00
26	Remove Concrete Sidewalk	Sq yd	10.0	$8.28	$ 82.80
27	Remove Concrete Driveway	Sq yd	50.0	$10.21	$ 510.60
28	Remove Concrete Pavement	Sq yd	50.0	$9.04	$ 451.95
29	Removal of Asphalt Pavement	Sq yd	50.0	$8.28	$ 414.00
30	Site Clearing and Grubbing	Sq yd	100.0	$1.38	$ 138.00
31	Landscape Grading	Sq yd	50.0	$2.07	$ 103.50
32	Erosion Control Blanket	Sq yd	24.0	$13.80	$ 331.20
33	Portland Cement Concrete Pavement 7 inch Thick	Sq ft	50.0	$24.84	$ 1,242.00
34	Concrete Curb and gutter Type B1	Lineal Ft	25.0	$12.42	$ 310.50
35	Pedestrian Access Ramp Type A	Sq Ft	4.0	$5.52	$ 22.08
36	Concrete Sidewalk	Sq ft	60.0	$8.28	$ 496.80
37	Concrete Flatwork 6 inch thick	Sq Yd	100.0	$16.56	$ 1,656.00
38	Hot Mix Asphalt	Sq Yd	10.0	$22.77	$ 227.70
39	Drill Seed	Acres	0.5	$690.00	$ 345.00
40	Turf Seed	1000 sq ft	100.0	$17.94	$ 1,794.00
41	Broadcast Seed	Acres	0.5	$690.00	$ 345.00
42	Broadcast Seed	1000 sq ft	500.0	$20.70	$ 10,350.00
43	Broadcast Turf Seed	1000 sq ft	500.0	$26.22	$ 13,110.00
44	Turf Sod	Sq ft	20.0	$2.76	$ 55.20
45	Tree Pruning	Each	2.0	$483.00	$ 966.00
46	Mast Arm Signal Pole (50 ft to 65 ft) - State Furnished	Each	4.0	$552.00	$ 2,208.00
47	Mast Arm Signal Pole (50 ft to 65 ft Foundation	Each	4.0	$4,416.00	$ 17,664.00
48	65 ft Mast Arm - State Furnished	Each	4.0	$759.00	$ 3,036.00
49	40 Ft Light Pole Extension with 10 ft Arm - State Furnished	Each	2.0	$538.20	$ 1,076.40
50	480V Highway Liminaire - State Furnished	Each	2.0	$345.00	$ 690.00
51	240V Highway Liminaire - State Furnished	Each	2.0	$345.00	$ 690.00
52	Pedestrian Pole - State Furnished	Each	4.0	$241.50	$ 966.00
53	Pedestrian Pole Foundation	Each	4.0	$1,932.00	$ 7,728.00
54	1 inch Dia. X 36 inch Anchor Bolt with Hardware	Each	4.0	$186.30	$ 745.20
55	1.5 inch Dia. X 54 inch Anchor Bolt with Hardware	Each	5.0	$213.90	$ 1,069.50

Attachment B- Pricing
Installation, Relocation, and Repair of the ATMS Devices
Price,
Carbon County
Summary of Items

	DESCRIPTION	unit	quantity	unit price	extended price
56	2 inch Diameter Arch Bolt with Hardware	Each	4.0	$227.70	$ 910.80
57	LED Ball and Arrow Signal Module, State Furnished	Each	24.0	$207.00	$ 4,968.00
58	LED Pedestrian Signal Module, State Furnished	Each	4.0	$131.10	$ 524.40
59	Power Source, Pole Mount	Each	2.0	$1,035.00	$ 2,070.00
60	Power Source, Underground Service Pedestal	Each	4.0	$1,380.00	$ 5,520.00
61	Size G Cabinet Pole Mount – State Furnished	Each	1.0	$207.00	$ 207.00
62	Size 5 Cabinet – State Furnished	Each	2.0	$310.50	$ 621.00
63	Size 5 Cabinet Foundation	Each	2.0	$1,035.00	$ 2,070.00
64	Size 6 Cabinet - State Furnished	Each	2.0	$483.00	$ 966.00
65	Size 6 Cabinet Foundation	Each	2.0	$1,242.00	$ 2,484.00
66	Mast Arm Mounted Sign - State Furnished	Each	4.0	$103.50	$ 414.00
67	IMSA 51-3, 1 wire, AWG 14 gage	Linear Ft.	500.0	$2.62	$ 1,311.00
68	IMSA 51-7, 2 wires,AWG 14 gage	Linear Ft.	500.0	$1.55	$ 772.80
69	IMSA 50-2, 2 wire, AWG 14 gage	Linear Ft.	500.0	$1.79	$ 897.00
70	IMSA 20-1, 3 wire, AWG 14 gage	Linear Ft.	500.0	$1.86	$ 931.50
71	IMSA 20-1, 4 wire, AWG 14 gage	Linear Ft.	500.0	$1.90	$ 952.20
72	IMSA 20-1, 7 wire, AWG 14 gage	Linear Ft.	500.0	$2.62	$ 1,311.00
73	RHHUSE-USE-RHW, 4 gage	Linear Ft.	500.0	$2.35	$ 1,173.00
74	RHHUSE-USE-RHW, 6 gage	Linear Ft.	500.0	$2.21	$ 1,104.00
75	RHHUSE-USE-RHW, 8 gage	Linear Ft.	500.0	$2.07	$ 1,035.00
76	Belden RG-59	Linear Ft.	500.0	$1.79	$ 897.00
77	Belden RG-8	Linear Ft.	500.0	$2.62	$ 1,311.00
78	Belden 9913	Linear Ft.	500.0	$2.35	$ 1,173.00
79	6 pair Belden AWG No. 19	Linear Ft.	500.0	$3.11	$ 1,552.50
80	Times LMR 600	Linear Ft.	500.0	$4.28	$ 2,139.00
81	Bare Copper Ground Wire, No. 6	Linear Ft.	500.0	$1.31	$ 655.50
82	Electrical Work Bridges	Linear Ft.	500.0	$16.56	$ 8,280.00
83	Ground Rods	Each	6.0	$103.50	$ 621.00
84	Traffic Counting Loop Detector	Each	4.0	$1,000.50	$ 4,002.00
85	Video Detection Assemblies - State Furnished	Each	1.0	$690.00	$ 690.00
86	Video Detection Controller - State Furnished	Each	1.0	$538.20	$ 538.20
87	Video Detection Cable Assembly - State Furnished	Each	1.0	$310.50	$ 310.50
88	Camera mount, video Detection with 46 inch Tube State Furnished	Each	5.0	$276.00	$ 1,380.00
89	Solar Power Battery Back Up – State Furnished	Each	4.0	$407.10	$ 1,628.40
90	Wood Pole 35 ft – State Furnished	Each	6.0	$276.00	$ 1,656.00
91	Flowable Fill	Cu yd	50.0	$117.30	$ 5,865.00
92	Pothole Patching – Concrete	Sq ft	50.0	$55.20	$ 2,760.00
93	Pothole Patching – Asphalt	Sq ft	50.0	$6.90	$ 345.00
94	2 inch Conduit Trenched in Native Earth at 18 Inch cover for less than 200 Feet	Lineal Ft	400.0	$13.11	$ 5,244.00
95	2 inch Conduit Trenched in Native Earth at 24 Inch cover for less than 200 Feet	Lineal Ft	200.0	$14.08	$ 2,815.20
96	2 inch Conduit Trenched in Native Earth at 36 Inch cover for less than 200 Feet	Lineal Ft	200.0	$15.18	$ 3,036.00
97	2 inch Conduit Trenched in Native Earth at 60 Inch cover for less than 200 Feet	Lineal Ft	200.0	$17.04	$ 3,408.60
98	2 Inch Conduit Bored, Jacked or Drilled for less than 200 Feet	Lineal Ft	100.0	$31.05	$ 3,105.00
99	2 Inch Conduit in Trenched Pavement, Concrete or Sidewalk at 3 foot cover for less than 200 Feet	Lineal Ft	100.0	$31.05	$ 3,105.00
100	3 inch Conduit Trenched in Native Earth at 18 Inch cover for less than 200 Feet	Lineal Ft	400.0	$14.01	$ 5,602.80
101	3 inch Conduit Trenched in Native Earth at 24 Inch cover for less than 200 Feet	Lineal Ft	200.0	$14.90	$ 2,980.80
102	3 inch Conduit Trenched in Native Earth at 36 Inch cover for less than 200 Feet	Lineal Ft	200.0	$16.01	$ 3,201.60
103	3 Inch Conduit Trenched in Native Earth at 60 Inch cover for less than 200 Feet	Lineal Ft	200.0	$17.53	$ 3,505.20
104	3 Inch Conduit Bored, Jacked or Drilled for less than 200 Feet	Lineal Ft	100.0	$31.74	$ 3,174.00
105	3 Inch Conduit in Trenched Pavement, Concrete or Sidewalk at 3 foot cover for less than 200 Feet	Lineal Ft	100.0	$31.74	$ 3,174.00
106	Closed Circuit Television (CCTV) Assembly System –State Furnished	Each	5.0	$621.00	$ 3,105.00
107	ATMS Cabinet, State Furnished	Each	5.0	$1,035.00	$ 5,175.00
108	ATMS Cabinet Foundation	Each	5.0	$1,035.00	$ 5,175.00

Attachment B- Pricing
Installation, Relocation, and Repair of the ATMS Devices
Price,
Carbon County
Summary of Items

	DESCRIPTION	unit	quantity	unit price	extended price
109	45 Ft Camera Pole	Each	5.0	$2,070.00	$ 10,350.00
110	45 Ft Camera Pole Foundation	Each	5.0	$4,416.00	$ 22,080.00
111	60 Ft Camera Pole	Each	1.0	$2,484.00	$ 2,484.00
112	60 Ft Camera Pole Foundation	Each	1.0	$4,830.00	$ 4,830.00
113	7 ft Chain Link Fence Type IV	Lineal Ft	40.0	$26.08	$ 1,043.28
114	7 ft. Chain Link Fence, Type I with Barb Wire Arm	Lineal Ft	40.0	$33.81	$ 1,352.40
115	Chain Link Brace Post	Each	8.0	$97.98	$ 783.84
116	Chain Link Gate, H=6 ft X W=6 ft	Each	1.0	$420.90	$ 420.90
117	RWIS-ESS - State Furnished	Each	5.0	$3,546.60	$ 17,733.00
118	Weigh In Motion System - State Furnished	Each	1.0	$2,898.00	$ 2,898.00
119	Reconstruct Manhole	Each	1.0	$1,173.00	$ 1,173.00
120	Type I-Polymer Concrete Junction Box	Each	10.0	$814.20	$ 8,142.00
121	Type II-Polymer Concrete Junction Box	Each	10.0	$966.00	$ 9,660.00
122	Type III-Polymer Concrete Junction Box	Each	5.0	$1,331.70	$ 6,658.50
123	Type I-Polymer Concrete Junction Box Extension	Each	10.0	$151.80	$ 1,518.00
124	Type II-Polymer Concrete Junction Box Extension	Each	10.0	$379.50	$ 3,795.00
125	Type III-Polymer Concrete Junction Box Extension	Each	5.0	$676.20	$ 3,381.00
126	Lighting Power Source Ground Mount	Each	10.0	$1,331.70	$ 13,317.00
127	Lighting Power Source Pole Mount	Each	10.0	$897.00	$ 8,970.00
128	5 Ton Crane with operator and laborer	Per Hour	100.0	$372.60	$ 37,260.00
129	Bucket Truck having a 65 foot working height with operator	Per Hour	100.0	$195.96	$ 19,596.00
130	Flat bed truck 1 ton with operator	Per Hour	100.0	$106.26	$ 10,626.00
131	Backhoe Loader with transport and operator – Size CAT 240D or equivalent	Per Hour	100.0	$158.70	$ 15,870.00
132	Auger Truck 36" diameter and 8 to 12 feet depth with operator	Per Hour	100.0	$131.10	$ 13,110.00
133	Auger Truck 42" diameter and 11to 32 feet depth with operator	Per Hour	100.0	$204.24	$ 20,424.00
134	5 ton Dump Truck per hour with operator	Per Hour	100.0	$117.30	$ 11,730.00

Exhibit III
SPECIAL PROVISION
SOLAR POWER BATTERY BACK UP

PART 1 General

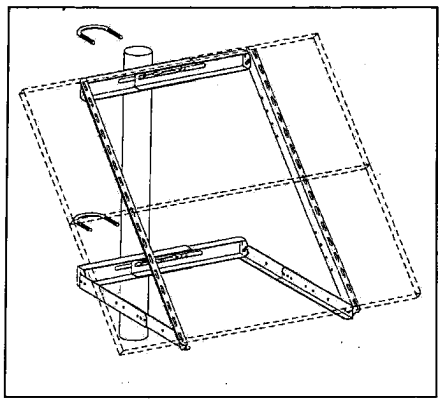
1.1 SECTION INCLUDES
1.1.1 Materials and procedures for the installation of Solar Power Battery Back Up.

1.2 RELATED SECTIONS
1.2.1 Section 02891 Traffic Signs
1.2.2 Section 02892 Traffic Signals
1.2.3 Section 13553 ATMS Conduit
1.2.4 Section 13556 Closed Circuit Television (CCTV) Assembly
1.2.5 Section 13592 Installation of State Furnished RWIS-ES

Part 2 PRODUCTS
2.1 Posts
2.1.1 Refer to Section 02891 Traffic Signs Part 2.1.A for specifications.

2.2 Wood Pole
2.2.1 Refer to Section 13556 Closed Circuit Television (CCTV) Assembly Part 2.1.A for specifications.
2.2.2 Refer to Special Provision 13553S ATMS Conduit Part 2.2.A for specifications

2.3 Universal Side-of-Pole Mounts
2.3.1 State Furnished



Typical Universal Side-of-Pole Mount for two Solar Panels size 21"X48"

2.4 Solar Power Battery Back Up
2.4.1 State Furnished

Part 3
3.1 PREPARATION
3.1.1 Obtain State furnished material for UDOT warehouse.

3.1.2 Install traffic control devices before a work activity begins.

3.1.3 Prepare construction site following section 02231 Site Clearing and Grubbing

3.2 Installation

3.2.1 Install post following Section 02891 Traffic Signs

3.2.2 Install wood pole following Section 13556 Closed Circuit Television (CCTV) Assembly,

3.2.3 Install Universal Side-of-pole Mounts and Solar Power Battery Back Up based upon factory instruction.

End of Section

Exhibit II

SECTION 13553S
Special Provision

ATMS CONDUIT

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Furnish and install conduit as shown on the plans and details. Unless otherwise specified, conduit may be installed by trenching, boring, or plowing.

B. Includes locate wire with associated 1" conduit.

C. Includes Mule Tape, all materials, labor, workmanship, equipment, and incidental items required for a complete system of conduit.

1.2 RELATED SECTIONS

A. Section 00725, Scope of Work

B. Section 02061: Select Aggregate

C. Section 02705: Pavement Cutting

D. Section 02741: Hot Mix Asphalt (HMA)

E. Section 02776: Concrete Sidewalk, Median Filler, and Flatwork

F. Section 02892: Traffic Signal

G. Section 03575: Flowable Fill

H. Section 13554: Polymer Concrete Junction Box

I. Section 13551: ATMS General Requirements

J. Section 13555: ATMS Cabinet

1.3 REFERENCES

A. ASTM D2241: Standard Specification for Poly-Vinyl Chloride (PVC) Pressure-Rated Pipe (SDR Series)

B. American National Standards Institutes (ANSI)

C. American Wire Gauge (AWG)

D. ANSI C 80.1: Rigid Steel Conduit

E. National Electric Code (NEC)

F. NEC Article 346: Rigid Metal Conduit

G. NEC Article 347: Rigid Nonmetallic Conduit

H. National Electrical Manufacturers Association: (NEMA)

I. NEMA Article TC-2: Electrical Polyvinyl Chloride (PVC) Tubing and Conduit.

J. NEMA Article TC-3: PVC Fittings for Use with Rigid PVC Conduit and Tubing

K. Underwriters Laboratory: UL-6

PART 2 PRODUCTS

2.1 MATERIALS

A. Conduit and Fittings:
   1. Schedule 40 PVC rated at 194 degrees F, as specified. NEMA TC-2, NEMA TC-3, ASTM D2241, UL Listed.
   2. HDPE (High Density Polyethylene) SDR11 rated, as specified. ASTM D 2241.
   3. Rigid steel as specified (UL-6).
   4. Galvanized as specified (ANSI C80.1).

B. Multi Conduit
   1. New, prefabricated.
   2. Minimum of 4 each 2-inch conduit.
   3. Label: FIBER OPTIC COMMUNICATIONS, permanent ½-inch black letters, every 6 ft. on the outside of each conduit.
   4. ATMS Conduit Types

a. 1D = 4-2 inch conduit
b. 2D = 8-2 inch conduit
c. 4D = 16-2 inch conduit

5. Color code each conduit or cell as follows:
   a. 1D
      Bank 1: one conduit of blue, orange, green and brown
   b. 2D
      Bank 1: one conduit of blue, orange, green, and brown
      Bank 2: one conduit of slate, white, red, and black
   b. 4D
      Bank 1: one conduit of blue, orange, green, and brown
      Bank 2: one conduit of slate, white, red, and black
      Bank 3: same as bank 1 with a stripe of contrasting color
      Bank 4: same as bank 2 with a stripe of contrasting color

C. Provide all materials used in the installation of conduits, such as sweps, adapters, couplings, glue, plugs and fittings, to meet or exceed all of the recommendations of the conduit manufacturer for suitable installation.

D. Provide special termination kits from the conduit manufacturer for terminating the conduit in vaults and junction boxes. Provide kits that form a watertight seal of conduit to structure wall.

E. Use complete conduit sections in nominal 20 ft. sections; couplings and fittings to provide for watertight integrity.

F. Use complete conduit manufactured 36" radius sweeps (11 1/4, 22 1/2, 45, 90 degree angles) complete with bell and spigot. Do not field bend conduit.

G. Provide flat profile, low stretch polyester, sequential footage marked, 2500 lb. tensile strength Mule Tape or approved equal in each empty conduit or cell.

H. Provide fiber optic and electrical buried cable marker warning tape that meets the following requirements:
   1. Material: Composite reinforced thermoplastic.
   2. Tape Color: Orange (communication) or Red (electric).
   3. Length: 5 ft. minimum.
   4. Text: Caution Buried Communication Cable or Caution Buried Electric (front and back).
   5. Text Color: Black.
   6. Width: 3-inch minimum (face or diameter).

I. Provide 1 jacketed #14 THHN solid green locator wire in 1 inch conduit in each trench where ATMS Conduit is installed. Place the locate wire conduit at the top of all other conduit in the trench as shown in Standard Drawing AT-6.

J. Provide locator wire connection device that meets the following requirements:
   1. Screw clamp connection type.
   2. Suitable for 22 to 8 AWG.
   3. Rated 50 amps.
   4. Rated 600 V.
   5. Provide zinc bichromate plated steel mounting rail for locator wire connection device.

K. Backfill
   1. Flowable Fill: Section 03575.
   2. Free Draining Granular Backfill Borrow: Section 02061.
   3. Native material: 96 percent compaction.

PART 3 EXECUTION

3.1 INSTALLATION

A. Plans depict conduit routing in schematic form only. Base final routing on actual field conditions at the time of construction, including Blue Stake markings, to prevent conflicts with existing utilities.

B. When installing conduit that houses communication cable, do not allow conduit to deflect vertically or horizontally along its length by a ratio greater than 10:1, (e.g. no more than 4-inch deflection per 40 inch in length).

C. When installing conduit, do not allow the sum total of the vertical and horizontal deflection of conduit between any two junction boxes exceed 270 degrees.

D. Do not place conduit directly above parallel utilities.

E. If the planned location of conduit is parallel to the existing traffic signal or ATMS conduit, locate conduit within 1 ft. of existing parallel conduit run (Refer to Section 02892: Traffic Signal).

F. Install all conduit bends to have a radius that is not less than 3 feet.

G. Install conduits that cross-finished curbs and gutters, sidewalks, concrete flatwork, textured or decorative surfaces by boring, jacking, or drilling. Entirely replace any damaged section at no additional cost to the Department.

H. Obtain appropriate permits before work commences.

I. Conduit Stub

1. Conduit to be installed in a junction box (Refer to Section 13554: Polymer Concrete Junction Box), to allow for the continuation of a conduit run. Type and number of conduits as shown on details.
2. Conduit stub to extend 10 feet from the junction box in line with the conduit run as shown on the Plans and Details.

J. All conduits must be proofed with an approved mandrel prior to installation of cabling and Mule Tape.

K. Record longitudinal and depth GPS coordinates (x,y,z) of conduit every 250 feet (minimum). See Section 13551, Article 2.1.D, As Built Drawings.

3.2 TRENCH FOR CONDUIT

A. Paved Surface (asphalt concrete):
1. Prior to any backhoe use, saw cut (Refer to 02705: Pavement Cutting) roadway-to-roadway base on both sides of trench to provide clean, straight wall for T-patch.
2. Use flowable fill to within 3 1/2 inches to 6 inches of the existing roadway surface, depending on the existing pavement thickness.
3. Minimum soil compaction under pavement: 96 percent.
4. Evenly apply tack coat before final backfill.
5. Restoration patch: match the composition, density, and elevation (1/4 inch), of the existing surface (Refer to 02741: Hot Mix Asphault).

B. Sidewalk or Decorative Pavement.
1. Use flowable fill to within 3 1/2 inches to 6 inches of the existing roadway surface, depending on the existing pavement thickness.
2. Minimum soil compaction under pavement: 96 percent.
3. Restore sidewalk or decorative pavement to original condition or better after work is completed (Refer to Section 02776: Concrete Sidewalk, Median Filler, and Flatwork).

C. Unpaved Surface:
1. Use backfill that matches the composition, density, and elevation (±0.2 inch), of the existing surface (Refer to Section 02776: Concrete Sidewalk, Median Filler, and Flatwork).
2. Dispose of surplus material daily.
3. Use flowable fill from bottom of trench to 3" above top conduit.

D. Conduit under Railroad Right-of-Way: Refer to Section 00725, Article: Railway Highway Provisions, and appropriate Railroad, such as Union Pacific Railroad, Standard Specifications:
1. Coordinate all work with appropriate Railroad personnel.
2. Complete Railroad Safety Training.

E. Minimum cover of conduit:
   1. Minimum cover in sidewalks or paved surfaces: 3 ft.
   2. Minimum cover in highway right of way, greater than 20 ft. from the edge of the pavement: 3 ft.
   3. Minimum cover within 20 ft. of the edge of the pavement: 5 ft.

F. Warning Tape:
   1. Install orange warning tape with black legend CAUTION - BURIED COMMUNICATION CABLE in all trenches containing multi-duct conduit or conduit containing communication cables.
   2. Install red warning tape with black legend CAUTION - BURIED ELECTRIC in all other trenches.
   3. Not required when flowable fill is directly overlaid with asphalt pavement or PCCP.
   4. Not required when boring conduit.

G. Locator Wire:
   1. Install #14 THHN solid green locator wire continuously in 1-inch conduit and bond to grounding rods within each junction box.
   2. Mount locator wire connection device to the sidewall of each junction box using a mounting rail (Refer to Section 13554: Polymer Concrete Junction Box).
   3. Connect the locator wire to the terminal block and connect the terminal block to the ground rod.

3.3 INSTALL CONDUIT

A. Place all conduits in the same trench whenever possible before surfacing.

B. Above ground use galvanized rigid steel; underground use PVC or HDPE. Apply corrosion protection per NEC Article 346 to any portion of galvanized rigid steel conduit buried in the ground or encased in concrete.

C. If flowable fill is used, encapsulate conduit a minimum of 3 inches above the top conduit with flowable fill. Continue flowable fill to the wall of the junction box to seal conduit entry into junction box. Clean excess flowable fill from inside junction box.

D. Install Mule Tape in all empty conduit including all cells of multi-duct conduit.
   1. On each end of conduit install plug with ¼-inch hole for Mule Tape.
   2. Leave 2 ft. of Mule Tape outside of the plug and fasten securely to plug.
   3. Because the Mule Tape is sequentially numbered, it must be continuous between junction boxes – do not splice Mule Tape in conduit.

E. Place all conduit that passes through a structural member in a metallic sleeve.

F. Secure conduit on structures with standard galvanized iron conduit clamps using at least 5/16-inch diameter concrete expansion anchors at a maximum of 5 ft. spacing.

G. Use conduit expansion fittings at structure expansion joint crossings.

H. Install all conduits so the flowable fill completely surrounds all exterior surfaces of the conduit. Separate multi-duct conduits using a commercially available conduit spacer or approved equivalent.

I. Install a bushing or adapter at ends of all nonmetallic conduit that contains a conductor per NEC Article 346, to protect the conductor from abrasion. Install rounded bushings on the ends of metal conduits per NEC Article 347.

J. Fill all new and existing conduit to less than 40 percent as per NEC.

K. Install manufactured sweeps in the multi-conduit (11 1/4, 22 1/2, 45, 90 degree angle) with conduit compatible bell and spigot ends. Do not field bend conduit.

L. Prior to pouring flowable fill, anchor the conduit in trench, at 16 ft intervals, to maintain the required conduit depth during pour.

M. Minimum separation between all conduit is 1.5 inches. The separation between individual conduit within a single cluster of multi-duct conduit is permitted to be closer.

N. Minimum separation between all conduit and the wall of the trench is 1.5 inches.

O. Place the locator wire conduit on the plane of the uppermost conduit in the trench. The separation between the locator wire conduit and other conduit may be less than 1.5 inches.

P. In native earth, do not place flowable fill closer than 6 inches to the finished grade.

Q. Maximum spacing between junction boxes is as follows:
   1. 1,000 ft for tangent surface street installations
   2. 3,000 ft for tangent highway installations
   3. Maximum spacing shall be reduced if horizontal or vertical deflection prevents the installation of cable within maximum tensile rating of the cable or location wire.

3.4 USE OF EXISTING OR OCCUPIED CONDUIT

A. Maintain the physical condition and functional integrity of all cabling and wiring in existing or occupied conduit.

B. Prior to installing fiber optic cable in an existing or occupied conduit:
   1. Remove any existing fiber optic cable/copper wire.
   2. Text the integrity and clean the conduit by successfully pulling a Department approved mandrel through the conduit prior to installing cable.
   2. Re-pull new and existing fiber optic cable/copper wire together.
   3. Perform all necessary splices and replace any impacted fiber cable, spider fan-out kits, and locate wire.
   4. Perform all additional necessary work needed to restore existing cable and conduit systems.

3.5 REPAIR/RESTORATION

A. Restore all areas, including landscaping, concrete pavement, asphalt, finished curbs and gutters, box culverts, sewers, underground water mains, sprinkler systems, sidewalks, concrete flatwork, textured or decorative surfaces, that were damaged during conduit and junction box installation.

B. Coordinate with local utilities for utility repair. Advise the Engineer of all repairs.

END OF SECTION

Exhibit I

SECTION 02923S

ATMS POWER SERVICE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Furnish and install a complete electrical power service as shown in the Details and Specifications. Includes all coordination with the power service provider, wires, surge protection, rigid metal riser, weatherhead, transformer, disconnects, conduit risers and stand-off brackets, breakers, clamps, conduit, junction boxes, grounding materials, duct seal, pull wire, locate tape, labor, workmanship, equipment, testing, documentation, and incidental items required for a fully operational system.

B. Furnish and install Power Pole.

1.2 RELATED SECTIONS

A. Section 13551: General ATMS Requirements

1.3 REFERENCES

A. ASTM A 123: Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

B. ASTM B 117: Operating Salt Spray (Fog) Apparatus

C. Local utility electric service requirements

D. National Electrical Manufacturers Association (NEMA) Standards Publication 250-1997

E. National Electric Code (NEC)

F. UL E-50076

1.4 SUBMITTALS

A. All submittals shall be in accordance with Section 13551: General ATMS Requirements.

PART 2 PRODUCTS

2.1 GENERAL

A. All electric service products shall comply with NEC, local utility electric service requirements and standards, and UDOT standards.

B. Provide approved underground service pedestal. Service pedestal shall be a safety switch as indicated in UDOT Standard Drawing SL-3. Service Enclosures must be NEMA 3R rated (See NEMA Standards Publication 250-1997).

C. Provide circuit breakers sized as indicated in plans.

D. Provide riser and weatherhead in compliance with UDOT and local utility standards (See UDOT Standard Drawing SL-6).

E. Provide approved blade disconnect as shown on plans and details.

F. Provide MasterLock P848 Lock for all disconnects and service pedestals. Provide two keys per lock to the Engineer.

G. Pole Mount: Standard Drawing SL-6.
   1. Service disconnect according to plans.
   2. Provide a manual EUSERC approved circuit closing link by-pass release meter socket.
   3. Unmetered street lighting circuit.

H. Underground Service Pedestal: As specified, ASTM B 117, and ASTM A 123 (Cabinet), UL E 50076.
   1. Enclosure: 0.120 inch galvanized steel or anodized aluminum.
      a. 0.080 inch galvanized steel or anodized aluminum covers.
      b. Finished surface with an environmental green, baked enamel over zinc-chromate primer as specified, or anodized aluminum. ASTM B 117.
      c. Bottom access opening.
      d. Electrical Utility Service Equipment Requirements Committee (EUSERC) approved circuit-closing by-pass release meter socket.
      e. Baffled ventilation louvers.

I. Circuit Breaker: Main Breaker
   1. Six space metered.
   2. Six space unmetered bus.

J. Detachable, pad-mount base.

2.2 WOOD POWER POLE

A. Power pole shall comply with local utility electric service requirements.

PART 3 EXECUTION

3.1 GENERAL

A. All electric service installation shall comply with NEC, local utility electric service requirements and standards, and UDOT standards.

B. Install underground service pedestal.

C. Install power pole as indicated on plans and in accordance with all local utility standards. Tamp and compact surrounding grade to match existing soil compaction. Contact the power company 10 days prior to pole installation.

D. Coordinate any utility connection with the Engineer and contact the utility company at least 60 days before the desired connection date.

E. Verify the exact location, voltage, procedure, and materials required by the utility company.

F. All underground and riser electrical conductors will be copper rated RHH-USE-RHW.

G. All electrical equipment, including cabinets, will be grounded in accordance with NEC. All ground wires will be hard drawn.

H. Contractor is responsible for supplying all conduit and conductors to power source connection location. Final connection is to be made by the power company.

3.2 POWER SERVICE

A. The Contractor will make timely and appropriate arrangements with the local power company for the installation of power service.

B. The Department will be responsible for all on-going electrical costs.

END OF SECTION

ATTACHMENT C

SPECIAL TERMS AND CONDITIONS
Installation, Relocation and Repair of the ATMS Devices

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2. QUANTITY OR AMOUNT ESTIMATES State does not guarantee to purchase any amount under this contract. Estimated amounts are for bidding purposes only and are not to be construed as a guarantee to purchase any amount.

3. PRICING The Contractor agrees that the prices bid on materials/services in this contract shall be guaranteed for two (2) year.

ANY CHANGE REQUEST ON PRICES MUST GUARANTEE THE PRICE FOR TWO YEARS, AND MUST BE MADE AT LEAST THIRTY (30) DAYS PRIOR TO THE REQUESTED EFFECTIVE DATE. ANY SUCH REQUEST MUST INCLUDE SUFFICIENT DOCUMENTATION SUPPORTING THE REQUEST. REQUESTS FOR CHANGE ON ANY PRICING IN THIS CONTRACT SHALL NOT BE EFFECTIVE UNTIL IT IS APPROVED BY THE PROCUREMENT SUPERVISOR OR THE PROCUREMENT MANAGER OF THE UTAH DEPARTMENT OF TRANSPORTATION.

4. WAGES The Contractor shall be responsible for all applicable company wages in accordance with the federal, state, and local laws and ordinances.

5. PURCHASE ORDERS Prior to award of a Purchase Order(s) for each specific project; a detailed scope of work based upon the work requested shall be provided to the Regional Project Manager or TOC Operation Manager, which will included the cost of the project, and completed date.

6. WORK SCHEDULING Work Schedules shall be negotiated between UDOT and CONTRACTOR. If CONTRACTOR is not available to meet time the requirements of UDOT, another contractor may be used for the project.

7. INVOICING THE CONTRACT NUMBER MUST APPEAR ON ALL INVOICES, BILLS OF LADING, PACKAGES AND ALL CORRESPONDENCE.

The State reserves the right to adjust incorrect invoices.

The State will remit payment by mail.

Invoices shall have all current and pertinent documentation supplied with the invoice as indicated below:

- Work order number (referenced to written estimate and authorization)
- Location and date of work
- Tabulation of quantities and contract unit prices
- Copy of OTDR test (if applicable); Light Test Sheets (section 13594 Fiber Optic Communication)
- All modifications to existing system redlined on department-furnished As-Build drawings, including splice detail sheets
- All required documentation as specified within pay-item descriptions
- Invoices shall be requested only upon completion of the work order
- Send invoices and documentation requirements for repair and maintenance work to:

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SPECIAL TERMS AND CONDITIONS
Installation, Relocation and Repair of the ATMS Devices

Utah Department of Transportation
Traffic Operation Center
Attn. Joe McBride
2060 South 2760 West
Salt Lake City, Utah 84104-4592

Send Invoices and Documentation Requirements for new installation work to:

Utah Department of Transportation
Traffic Operation Center
Attn. Craig Wright
2060 South 2760 West
Salt Lake City, Utah 84104-4592

10. NON-ASSIGNMENT The Contractor shall not sublet, assign or transfer any part of the contract without prior written approval from the Procurement Supervisor or the Procurement Manager of the Utah Department of Transportation. The provision of monies due under this contract shall not be assignable without prior written approval from the Procurement Supervisor or the Procurement Manager of the Utah Department of Transportation.

11. INSURANCE The Contractor shall maintain, during the life of this contract, complete Owner's Protective Liability Insurance in the following amounts: Bodily Injury and Property Damage - $1,000,000 per Occurrence and $2,000,000 per Aggregate

12. AUTHORIZATION TO USE SERVICES The use of services shall be authorized and requested in writing, and only by the respective Regional Project Manager or TOC Field Operations Managere.

13. NON – COMPETE CLAUSE The CONTRACTOR represents its officers and employees are free to contract with STATE and are not subject to restrictions by the terms of their present or past employment including, but not limited to an agreement not to compete for a period of time unless disclosure has been made. CONTRACTOR must disclose to the STATE any possible conflicts, in writing, before the contract is signed, and the STATE will evaluate whether to continue with contract execution. STATE may elect to terminate a contract immediately with a CONTRACTOR who is subsequently determined to be subject to such restrictions without liability to the STATE. If the STATE elects to terminate a contract for this reason, the STATE will supersede paragraph #12 in Attachment A - Standard Terms and Conditions and will not provide 30 day prior notice to the CONTRACTOR.

14. LIQUIDATED DAMAGES: CONTRACTOR agrees to delivery of items as quoted in this bid. Failure to deliver as quoted, constitutes an event of default. The actual damages to the Department of Transportation for delay will be difficult or impassible to determine. Therefore, in lieu of actual damages, the vendor shall pay to the Department of Transportation, liquidated damages for each calendar day of delay, an amount of $50.00 per unit, up to a maximum of 90 calendar days (including pilot unit). Should the vendor be unable to complete the delivery at the end of the 90-day period, the Utah Department of Transportation may, at its option, treat the contract as breached, terminate the contract, purchase substitute goods else-where, and charge the full increase, if any, in cost and handling for such purchase to the defaulting vendor, and seek such additional relief as provided by law. The vendor shall not be charged for liquidated damages when delay arises out of causes beyond the control and without the fault or negligence of the vendor

ATTACHMENT C

SPECIAL TERMS AND CONDITIONS
Installation, Relocation and Repair of the ATMS Devices

15. COMPLETE DELIVERY Delivery shall not be deemed to be complete until the goods have been actually received and accepted by STATE, including setup and testing if applicable, notwithstanding any agreement to pay freight, express or other transportation charges.

16. NOTIFICATION All notices or correspondence given pursuant to this contract shall be sent to:

CONTRACTOR
Mark J. Todd. Chief Estimator
918 South 2000 West
Syracuse, UT 84075
801-282-0000 ext 548 voice
801-260-1136 Fax

STATE
Utah Department of Transportation
Denice McCarthy, Procurement
4501 South 2700 West
Salt Lake City, UT 84119
801-965-4761 Voice
Dmccarthy@Utah.gov
801.965.4073 Fax

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Attn. Joe McBride
2060 South 2760 West
Salt Lake City, Utah 84104-4592

17. NON-PERFORMANCE If, at any time, the individuals proposed fail to demonstrate the required expertise (as represented in the CONTRACTOR's proposal) or fail to meet acceptable standards of performance, the STATE reserves the right to require the CONTRACTOR to replace this individual with a competent individual. This replacement must be approved by the STATE Project Manager. If the CONTRACTOR fails to accomplish project objectives or meet schedule commitments established in meetings with the STATE Project Manager, this contract may be canceled immediately. Waiver of any individual requirements shall not be deemed as a waiver of any other contract provisions. Lack of demand shall not be deemed of a requirement waiver. If the STATE elects to terminate the contract for non-performance, the STATE will supersede paragraph # 12 in Attachment A -Standard Terms and Conditions, and will not provide 30 day prior notice to the CONTRACTOR.

18. QUALITY SERVICES CONTRACTOR represents to STATE that it is experienced in and thoroughly familiar with all aspects of the services required hereunder and is properly qualified as applicable and is equipped, organized, and financially able to perform the services.

No changes in the services to be provided by CONTRACTOR under this Contract shall be made without STATE's prior written approval.

19. TERMINATION The occurrence of any of the following constitutes a breach by CONTRACTOR unless corrected by CONTRACTOR within five (5) days.

- CONTRACTOR failure to perform services and/or deliver product on time.
- Services performed and/or product delivered by CONTRACTOR do not conform with the terms set forth in this Contract.

ATTACHMENT C

SPECIAL TERMS AND CONDITIONS
Installation, Relocation and Repair of the ATMS Devices

- CONTRACTOR fails to perform any material provision of this Contract.
- STATE and CONTRACTOR do not reach an agreement on the next Pricing Period.
- CONTRACTOR assigns this Contract, or any obligation or rights hereunder. (The term "assign" to include, without limitation, a transfer of majority.)
- CONTRACTOR sells or merges with a third-party (not a parent or subsidiary company) without the prior written consent of STATE.
- CONTRACTOR becomes insolvent or makes an assignment for the benefit of creditors, or a receiver, or similar officer is appointed to take charge of all or part of CONTRACTOR's assets.

CONTRACTOR shall cure any of the above breaches and notify STATE of such cure within five (5) days from receipt of a notice to cure from STATE. If CONTRACTOR fails to cure, STATE may terminate this Contract by giving CONTRACTOR written notice. STATE shall have no liability to CONTRACTOR thereafter except for payment of any balance due for conforming services performed prior to the date of STATE's notice to cure. STATE may, at its option and without regard to CONTRACTOR's ability to cure, terminate this Contract for cause in the event of any second or subsequent instances of the above breaches by CONTRACTOR.

22. TERMINATION FOR OTHER THAN NON-PERFORMANCE. If the STATE terminates for reasons other than non-performance, the CONTRACTOR is relieved of any performance responsibilities on the project, and the withheld performance guarantee amount will be released by the STATE. The estimated completion of projects may overlap in new fiscal years. (STATE fiscal year is from July 1, to June 30). If funding is not allocated for individual projects which overlap into the new fiscal year, the project will be automatically terminated on June 30th without written notice to CONTRACTOR.

23. CONTRACT SCHEDULE, DELAYS AND EXTENSIONS: Completion of the contract in accordance with the schedule is the responsibility of the CONTRACTOR. The CONTRACTOR agrees to proceed with the performance of this contract continually and diligently in accordance with the agreed upon contract schedule and will make no charges or claims for extra compensation due to delays or hindrances within its control. Failure to comply with the contract schedule constitutes adequate justification for contract termination. The STATE may allow an extension of time beyond the agreed upon schedule, but by doing so does not waive any of its rights under the contract to secure full and complete contract performance

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